



Features

- Shielded construction for low radiation
- Low profile: 1.4 mm
- RoHS compliant* and halogen free**

Applications

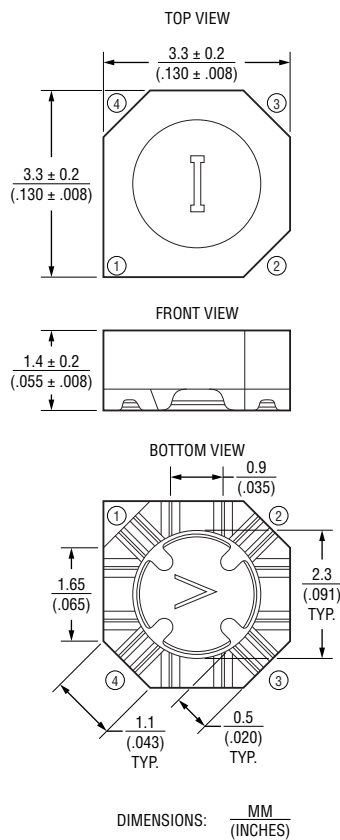
- SEPIC topology
- Power supplies

SRF3015 Series – Dual-Winding Shielded Power Inductors

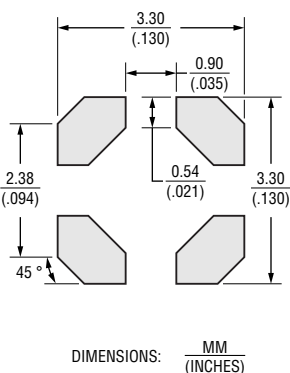
Electrical Specifications @ 25 °C

Bourns Part Number	L1, L2 @ 100 kHz / 0.1 V (μ H)		DCR1, DCR2 (Ω)		SRF (MHz) Typ.	LK (μ H) Typ.	I _{rms} (A) Typ.	Isat (A) Typ.	Marking
	L (μ H)	Tol. (%)	Typ.	Max.					
SRF3015-1R0Y	1.00	30	0.09	0.12	160	0.09	1.10	1.65	A
SRF3015-1R5Y	1.50		0.13	0.17	140	0.11	0.95	1.35	B
SRF3015-2R2Y	2.20		0.21	0.27	110	0.14	0.75	1.10	C
SRF3015-3R3Y	3.30		0.29	0.37	90	0.16	0.64	0.92	D
SRF3015-4R7Y	4.70		0.39	0.51	79	0.18	0.55	0.77	E
SRF3015-6R8Y	6.80		0.55	0.72	58	0.22	0.45	0.64	F
SRF3015-100Y	10.0		0.95	1.25	48	0.28	0.35	0.53	G
SRF3015-150Y	15.0		1.45	1.90	35	0.37	0.28	0.43	H
SRF3015-220Y	22.0		1.70	2.00	30	0.55	0.26	0.37	I

Product Dimensions



Recommended Layout



How to Order

Model SRF3015 - 1R0 Y

Value Code (see table) _____

Tolerance _____

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EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

www.bourns.com

Additional Information

Click these links for more information:



General Specifications

Operating Temperature

..... -40 °C to +125 °C
(Temperature rise included)

Storage Temperature... -40 °C to +125 °C

Temperature Rise

..... 40 °C typ. at rated I_{rms}

Rated Current

..... Inductance drops 30 % at Isat

Hi-pot

(N1-N2) ... 100 VAC/60Hz, 3 mA, 1 min.

Moisture Sensitivity Level..... 1

ESD Classification (HBM) N/A

Materials

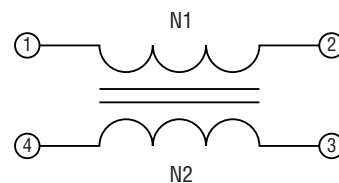
Core Material Ferrite

Wire Enameled copper

Terminal Finish Sn

Packaging 1,200 pcs. per 7-inch reel

Schematic



**WARNING Cancer
and Reproductive Harm**
www.P65Warnings.ca.gov

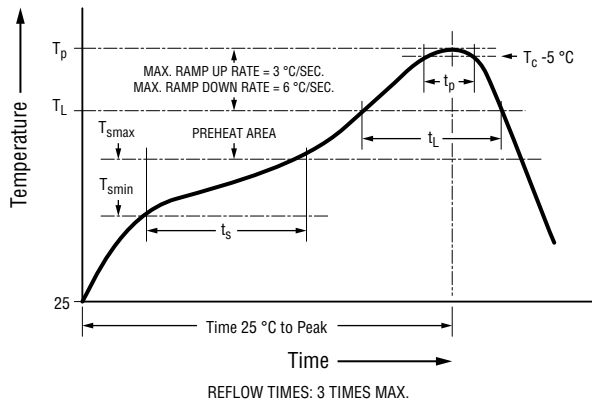
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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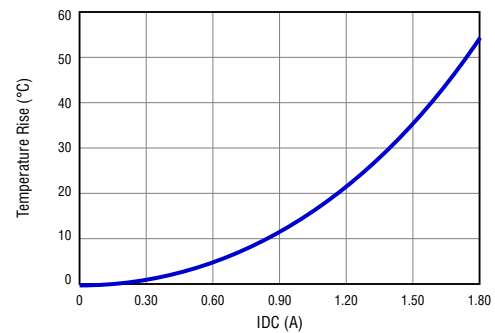
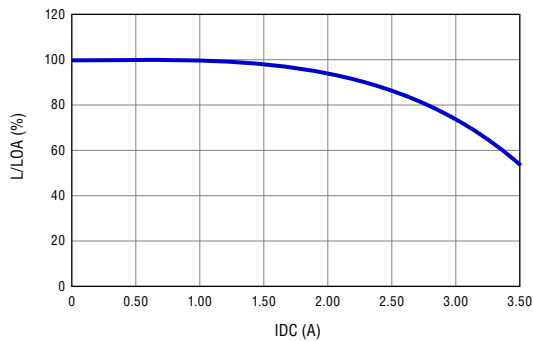
Soldering Profile



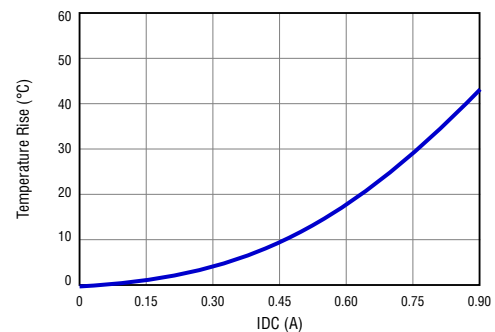
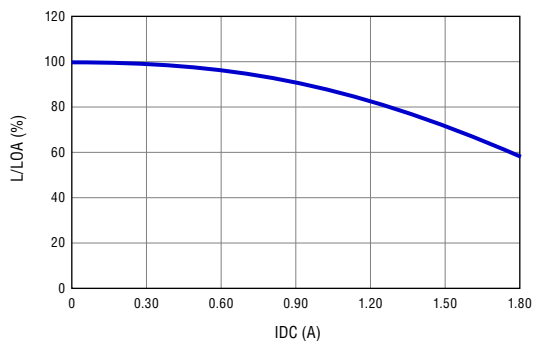
Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smmin}) - Temperature Max. (T_{smmax}) - Time(t_s) from T_{smmin} to T_{smmax}	150 °C 200 °C 60-120 seconds
Ramp-up Rate (T _L to T _p)	3 °C/second max.
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217 °C 60-150 seconds
Peak package body temperature (T _p)	250 °C
Time (t _p) at T _c - 5 °C (T _p should be equal to or less than T _c)	< 30 seconds
Ramp-Down Rate (T _p to T _L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

L vs I Charts

SRF3015-1R0Y



SRF3015-4R7Y



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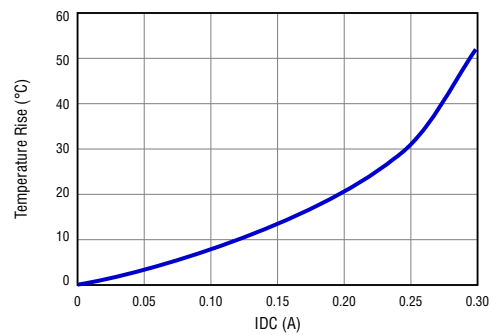
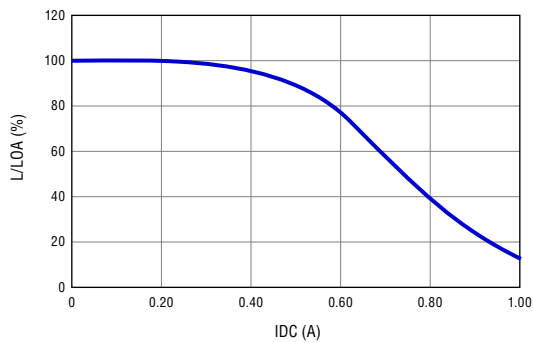
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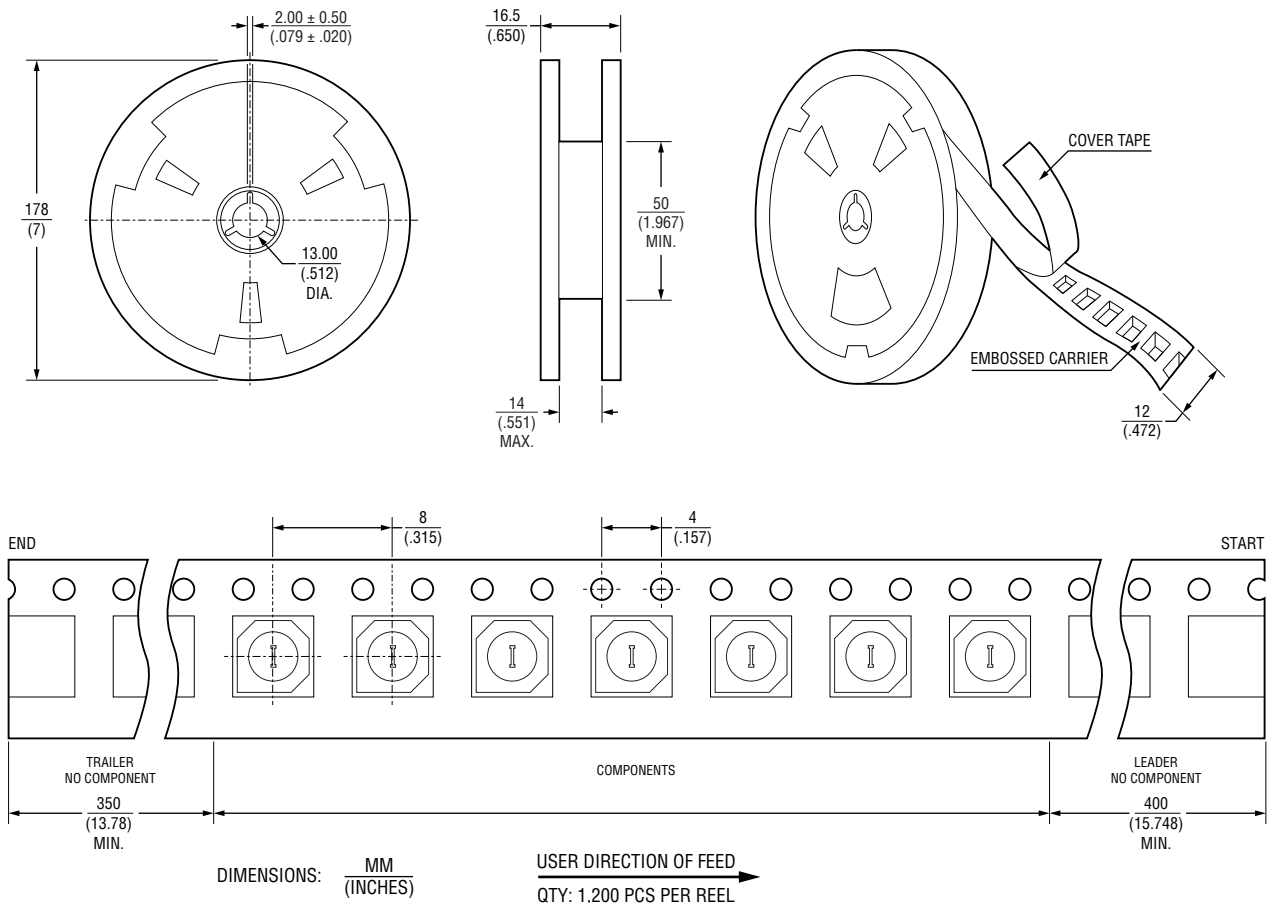
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L vs I Charts (continued)

SRF3015-220Y



Packaging Specifications



REV. 09/24

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